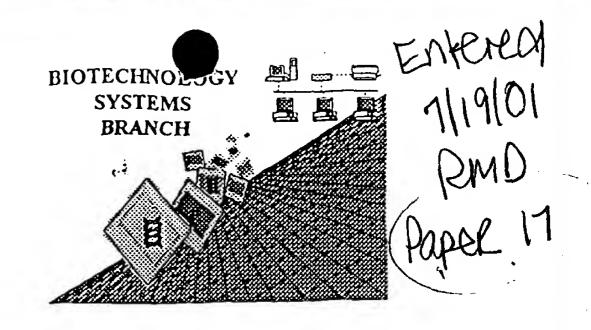


## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/659,983BSource: 0/PEDate Processed by STIC: 6/5/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

## Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

J. Solder

OIPE

DATE: 06/05/2001 RAW SEQUENCE LISTING Does Not Comply TIME: 14:22:06 US/09/659,983B PATENT APPLICATION: Corrected Diskette Neede Input Set : A:\PTO.txt Output Set: C:\CRF3\06052001\1659983B.raw 3 <110> APPLICANT: Meloen, Robert Hans Oonk, Hendrica Berendina 6 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or Medical Preparation, a Method to Immunise Animals Against the Hormone LHRH, and Analogs of the LHRH Tandem Repeat Peptide and their Use as Vaccine 10 <130> FILE REFERENCE: 2183-4518US 12 <140> CURRENT APPLICATION NUMBER: 09/659,983B > 13 <141> CURRENT FILING DATE: 2001-05-12 15 <150> PRIOR APPLICATION NUMBER: US 09/274,048 16 <151> PRIOR FILING DATE: 1999-03-22 ENTERED 18 <150> PRIOR APPLICATION NUMBER: US 08/981,557 19 <151> PRIOR FILING DATE: 1995-06-07 21 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223 22 <151> PRIOR FILING DATE: 1996-06-06 24 <150> PRIOR APPLICATION NUMBER: US 08/447,298 25 <151> PRIOR FILING DATE: 1995-06-07 27 <150> PRIOR APPLICATION NUMBER: US 08/476,013 28 <151> PRIOR FILING DATE: 1995-06-07 30 <160> NUMBER OF SEQ ID NOS: 13 32 <170> SOFTWARE: PatentIn version 3.0 34 <210> SEQ ID NO: 1 35 <211> LENGTH: 10 36 <212> TYPE: PRT 37 <213> ORGANISM: Sus scrofa 39 <220> FEATURE: 40 <221> NAME/KEY: PEPTIDE 41 <222> LOCATION: (1)..(1) 42 <223> OTHER INFORMATION: X=pyroglutamic acid 45 <220> FEATURE: 46 <221> NAME/KEY: PEPTIDE 47 <222> LOCATION: (10)..(10) 48 <223> OTHER INFORMATION: X=Gly-NH2 51 <400> SEQUENCE: 1 53 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa 10 54 1 56 <210> SEQ ID NO: 2 57 <211> LENGTH: 10 58 <212> TYPE: PRT 59 <213> ORGANISM: Homo sapiens 61 <220> FEATURE:

70 <223> OTHER INFORMATION: X=Gly-NH2

62 <221> NAME/KEY: PEPTIDE

63 <222> LOCATION: (1)..(1)

68 <221> NAME/KEY: PEPTIDE

69 <222> LOCATION: (10)..(10)

67 <220> FEATURE:

64 <223> OTHER INFORMATION: X=pyroglutamic acid

TIME: 14:22:06

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Input Set : A:\PTO.txt
                      Output Set: C:\CRF3\06052001\1659983B.raw
      73 <400> SEQUENCE: 2
      75 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa
      76 1
     78 <210> SEQ ID NO: 3
     79 <211> LENGTH: 20
     80 <212> TYPE: PRT
 > 81 <213> ORGANISM: artificial
     83 <220> FEATURE:
     84 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
     85
               GnRH/ LHRH
     87 <220> FEATURE:
     88 <221> NAME/KEY: PEPTIDE
     89 <222> LOCATION: (1)..(1)
     90 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more
addi
     91
               tional amino acid
     94 <220> FEATURE:
     95 <221> NAME/KEY: PEPTIDE
     96 <222> LOCATION: (3)..(3)
     97 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan
                                    X as can only represent a single amino and, nothing else
     100 <220> FEATURE:
     101 <221> NAME/KEY: PEPTIDE
     102 <222> LOCATION: (11)..(11)
     103 <223> OTHER INFORMATION: X=direct bond or a spacer group between Gly at position 10
and Gl
     104
               n at position 1
     107 <220> FEATURE:
     108 <221> NAME/KEY: PEPTIDE
     109 <222> LOCATION: (13)..(13)
     110 <223> OTHER INFORMATION: X=Trp or N(indole) formyl-tryptophan
     113 <220> FEATURE:
     114 <221> NAME/KEY: PEPTIDE
     115 <222> LOCATION: (20)..(20)
     116 <223> OTHER INFORMATION: X=Gly-NH2 or Gly with attached tail of one or more amino
acids
     119 <220> FEATURE:
     120 <221> NAME/KEY: VARIANT
     121 <222> LOCATION: (10)..(20)
     122 <223> OTHER INFORMATION: variable repeat sequence <>10-20
     125 <400> SEQUENCE: 3
W--> 127 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly (Xaa Mis Xaa Ser Tyr Gly
     128 1
W--> 130 Leu Arg Pro Xaa
     131
                      20
     133 <210> SEQ ID NO: 4
     134 <211> LENGTH: 21
     135 <212> TYPE: PRT
   > 136 <213> ORGANISM: artificial
     138 <220> FEATURE:
     139 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
     140
               GnRH/ LHRH
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

142 <220> FEATURE:

TIME: 14:22:06

Input Set : A:\PTO.txt Output Set: C:\CRF3\06052001\I659983B.raw 143 <221> NAME/KEY: PEPTIDE 144 <222> LOCATION: (1)..(1) 145 <223> OTHER INFORMATION: X=pyroglutamic acid 148 <220> FEATURE: 149 <221> NAME/KEY: PEPTIDE 150 <222> LOCATION: (6)..(6) 151 <223> OTHER INFORMATION: X=D-Lys 154 <220> FEATURE: 155 <221> NAME/KEY: PEPTIDE 156 <222> LOCATION: (11)..(11) 157 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer 160 <220> FEATURE: 161 <221> NAME/KEY: PEPTIDE 162 <222> LOCATION: (16)..(16) 163 <223> OTHER INFORMATION: X=D-Lys 166 <220> FEATURE: 167 <221> NAME/KEY: PEPTIDE 168 <222> LOCATION: (21)..(21) 169 <223> OTHER INFORMATION: X=Cys-NH2 172 <4.00> SEQUENCE: 4  $W_{5,7} > 174$  Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa / 175 1 > 177 Leu Arg Pro Gly Xaa 20 178 180 <210> SEQ ID NO: 5 181 <211> LENGTH: 21 182 <212> TYPE: PRT CV-> 183 <213> ORGANISM: artificial 185 <220> FEATURE: 186 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms GnRH/ LHRH 187 189 <220> FEATURE: 190 <221> NAME/KEY: PEPTIDE 191 <222> LOCATION: (1)..(1) 192 <223> OTHER INFORMATION: X=pyroglutamic acid 195 <220> FEATURE: 196 <221> NAME/KEY: PEPTIDE 197 <222> LOCATION: (4)..(4) 198 <223> OTHER INFORMATION: X=amino acid substitution 201 <220> FEATURE: 202 <221> NAME/KEY: PEPTIDE 203 <222> LOCATION: (6)..(6) 204 <223> OTHER INFORMATION: X=D-Lys 207 <220> FEATURE: 208 <221> NAME/KEY: PEPTIDE 209 <222> LÒCATION: (11)..(11) 210 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer 213 <220> FEATURE: 214 <221> NAME/KEY: PEPTIDE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

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Input Set : A:\PTO.txt
                      Output Set: C:\CRF3\06052001\I659983B.raw
     215 <222> LOCATION: (14)..(14)
     216 <223> OTHER INFORMATION: X=amino acid substitution
     219 <220> FEATURE:
     220 <221> NAME/KEY: PEPTIDE
     221 <222> LOCATION: (16)..(16)
     222 <223> OTHER INFORMATION: X=D-Lys
     225 <220> FEATURE:
     226 <221> NAME/KEY: PEPTIDE
     227 <222> LOCATION: (21)..(21)
     228 <223> OTHER INFORMATION: X=Cys-NH2
     231 <400> SEQUENCE: 5
\mathcal{W}_{1}+> 233 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa
                                                                   15
                                               10
     234 1
  $\frac{1}{2} > 236 Leu Arg Pro Gly Xaa
     237
     239 <210> SEQ ID NO: 6
     240 <211> LENGTH: 21
     241 <212> TYPE: PRT
CH-> 242 <213> ORGANISM: artificial
     244 <220> FEATURE:
     245 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
               GnRH/ LHRH
     246
     248 <220> FEATURE:
     249 <221> NAME/KEY: PEPTIDE
     250 <222> LOCATION: (1)...(1)
     251 <223> OTHER INFORMATION: X=pyroglutamic acid
     254 <220> FEATURE:
     255 <221> NAME/KEY: PEPTIDE
     256 <222> LOCATION: (6)..(6)
     257 <223> OTHER INFORMATION: X=D-Lys
     260 <220> FEATURE:
     261 <221> NAME/KEY: PEPTIDE
     262 <222> LOCATION: (8)..(8)
     263 <223> OTHER INFORMATION: X=amino acid substitution
     266 <220> FEATURE:
     267 <221> NAME/KEY: PEPTIDE
     268 <222> LOCATION: (11)..(11)
     269 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
     272 <220> FEATURE:
     273 <221> NAME/KEY: PEPTIDE
     274 <222> LOCATION: (16)..(16)
     275 <223> OTHER INFORMATION: X=D-Lys
     278 <220> FEATURE:
     279 <221> NAME/KEY: PEPTIDE
     280 <222> LOCATION: (18)..(18)
     281 <223> OTHER INFORMATION: X=amino acid substitution
     284 <220> FEATURE:
     285 <221> NAME/KEY: PEPTIDE
     286 <222> LOCATION: (21)..(21)
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

```
TIME: 14:22:06
                     PATENT APPLICATION: US/09/659,983B
                     Input Set : A:\PTO.txt
                     Output Set: C:\CRF3\06052001\I659983B.raw
    287 <223> OTHER INFORMATION: X=Cys-NH2
    290 <40,0> SEQUENCE: 6
    292 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa
     295 Leu Xaa Pro Gly Xaa
             · 20
     296
     298 <210> SEQ ID NO: 7
    299 <211> LENGTH: 21
     300 <212> TYPE: PRT
(1) 301 <213> ORGANISM: artificial
     303 <220> FEATURE:
     304 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
               GnRH/ LHRH
     305
     307 <220> FEATURE:
     308 <221> NAME/KEY: PEPTIDE
     309 <222> LOCATION: (1)..(1)
     310 <223> OTHER INFORMATION: X=pyroglutamic acid
     313 <220> FEATURE:
     314 <221> NAME/KEY: PEPTIDE
     315 <222> LOCATION: (6)..(6)
     316 <223> OTHER INFORMATION: X=D-Lys
     319 <220> FEATURE:
     320 <221> NAME/KEY: PEPTIDE
     321 <222> LOCATION: (10)..(10)
     322 <223> OTHER INFORMATION: X=amino acid substutition
     325 <220> FEATURE:
     326 <221> NAME/KEY: PEPTIDE
     327 <222> LOCATION: (11)..(11)
     328 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
     331 <220> FEATURE:
     332 <221> NAME/KEY: PEPTIDE
     333 <222> LOCATION: (16)..(16)
     334 <223> OTHER INFORMATION: X=amino acid substitution
     337 <220> FEATURE:
     338 <221> NAME/KEY: PEPTIDE
     339 <222> LOCATION: (20)..(20)
     340 <223> OTHER INFORMATION: X=amino acid substitution
     343 <220> FEATURE:
     344 <221> NAME/KEY: PEPTIDE
     345 <222> LOCATION: (21)..(21)
     346 <223> OTHER INFORMATION: X=Cys-NH2
     349 <400> SEQUENCE: 7
   > 351 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr Xaa
                                                                   15
     352
     354 Leu Arg Pro Xaa Xaa
                      20
     355
     357 <210> SEQ ID NO: 8
     358 <211> LENGTH: 42
     359 <212> TYPE: PRT
   Please Note:
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RAW SEQUENCE LISTING

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:07

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\1659983B.raw

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:242 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:360 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:434 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:528 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:587 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:646 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
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